



# Summer Math Practice

## Preparing for



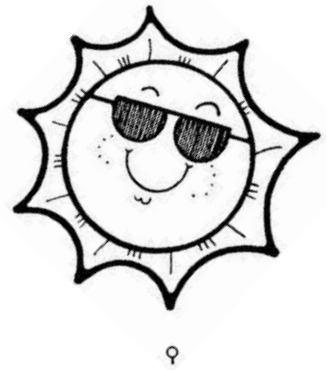
# Math 7



These problems are meant to prepare you to be successful in 7th-grade math next year. The packet is designed so that you can practice a variety of problems each week. It is recommended that you complete only one page of the packet each week so that you are able to keep your brain fresh from now until August! Remember to *show all of your work* in the space provided below the problem.



You may email  
Mrs. Tenery ([ktenery@fwc.org](mailto:ktenery@fwc.org))  
for any other summer math needs.



I look forward to working with you in the fall!

Student Name \_\_\_\_\_

Name \_\_\_\_\_

## Students are expected to know the following:

### Multiplication tables for 1-12

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

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### Perfect Squares and Square Roots (1-12)

$1^2 = 1$	$\sqrt{1} = 1$	$7^2 = 49$	$\sqrt{49} = 7$
$2^2 = 4$	$\sqrt{4} = 2$	$8^2 = 64$	$\sqrt{64} = 8$
$3^2 = 9$	$\sqrt{9} = 3$	$9^2 = 81$	$\sqrt{81} = 9$
$4^2 = 16$	$\sqrt{16} = 4$	$10^2 = 100$	$\sqrt{100} = 10$
$5^2 = 25$	$\sqrt{25} = 5$	$11^2 = 121$	$\sqrt{121} = 11$
$6^2 = 36$	$\sqrt{36} = 6$	$12^2 = 144$	$\sqrt{144} = 12$

### Measurement Conversions

1 week = 7 days	1 mile = 5280 feet
1 day = 24 hours	1 foot = 12 inches
1 hour = 60 minutes	1 mile = 1760 yards
1 minute = 60 seconds	1 yard = 3 feet
1 gallon = 4 quarts	1 kilometer = 1000 meters
1 quart = 2 pints	1 meter = 100 centimeters
1 pint = 2 cups	1 centimeter = 10 millimeters
1 kilogram = 1000 grams	1 pound = 16 ounces
1 liter = 1000 milliliters	1 dollar = 100 cents

### Vocabulary

**Evaluate** - to calculate the value of an expression

**Simplify** - to reduce an expression to its simplest form (fewest number of terms possible)

**Solve** - to find a value for the variable that makes an equation true

**Expression** - numbers, symbols, and operations (+, -, ÷, ×) grouped together (*can be evaluated/simplified*)

**Equation** - uses an *equal sign* to show two expressions are equal to the same value (*can be solved*)

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# Week 1



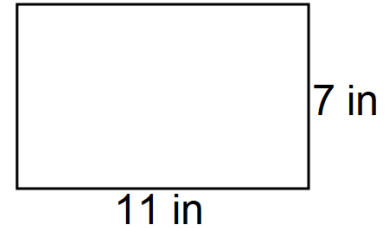
Find the sum.

$$\frac{3}{4} + \frac{1}{12}$$

Round to the nearest TENTHS place:

41,567.145

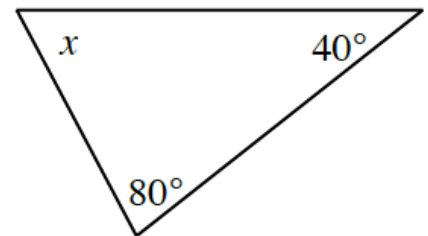
Find the area of the rectangle.



Find the Greatest Common Factor  
between the following:  
12 and 36

Change the following mixed number  
into an improper fraction.  
 $2\frac{3}{8}$

Find the missing angle measurement  
of the triangle below.



Solve:

$$x - 14 = 22$$

Evaluate the following.

$$8 + (21 \div 3) - 5$$

Find the quotient.

$$84.42 \div 6$$

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# Week 2



<p>Find the sum.</p> $8.74 + 10.35$	<p>Find the product.</p> $2\frac{1}{2} \times \frac{2}{5}$	<p>Simplify the expression:</p> $5(3 + x)$
<p>Convert the following measurement.</p> <p>32 pints = _____ gallons</p>	<p>Find the quotient.</p> $396 \div 2.4$	<p>List all the <i>factors</i> of 36:</p>
<p>Find the Least Common Multiple between the two numbers: 10 and 25</p>	<p>Write an expression to represent the following: <i>"the product of negative four and a number"</i></p>	<p>Evaluate the following.</p> $42 \div (-6)$

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# Week 3

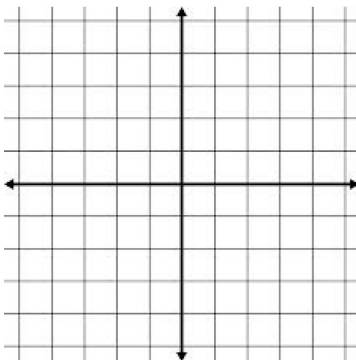


Evaluate the following.

$$(20 - 6) \div 7 + 9$$

Graph the following points on the coordinate plane.

$$(1, -3), (2, 2), (-4, 0)$$



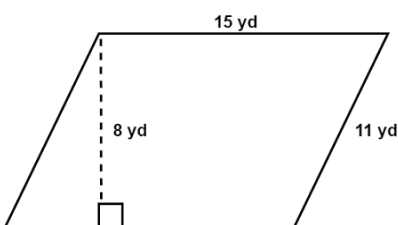
Find the quotient.

$$\frac{2}{11} \div \frac{1}{33}$$

Round to the nearest WHOLE NUMBER:

12,915.56

Find the area of the parallelogram.



Find the difference.

$$8.04 - 6.8$$

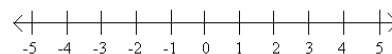
Evaluate the following:

$$22 + (-15)$$

Matt would like to share  $\frac{5}{8}$  of a pound of chocolate with his 3 friends. How many pounds of chocolate will each of the 4 people receive?

Graph the inequality on the number line below.

$$x \leq 2$$



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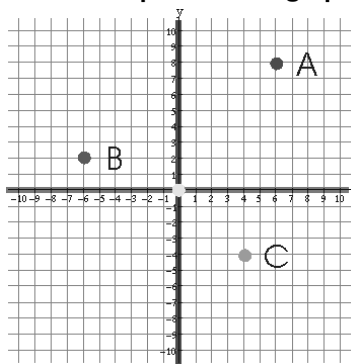
# Week 4



Find the mean.

16 23 40 32 12 29 17

Name each point on the graph:



A: (     ,     ) B: (     ,     )  
C: (     ,     )

Find the median.

33 54 21 40 56 29 48

Evaluate the following:

$$3^2 + (6 \times 4) - 5$$

List two equivalent numbers for:

$$\frac{3}{4}$$

Find the product.

$$(2.34)(5.6)$$

Find the difference.

$$14.76 - 9.8$$

Solve.

$$5x = 25$$

Find the Greatest Common Factor  
between the numbers:

*20 and 24*

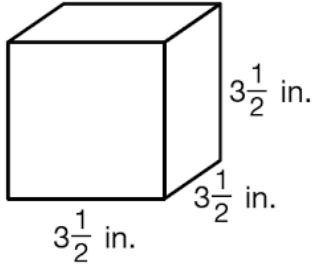
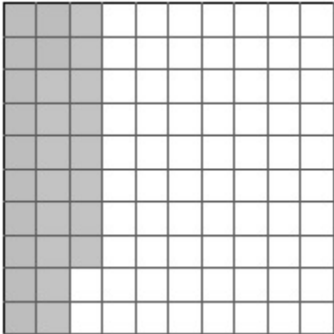
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# Week 5



<p>Find the difference.</p> $10\frac{3}{4} - 6\frac{2}{5}$	<p>Find the range.</p> <p>66 35 28 44 14 62 39</p>	<p>Round to the nearest TENTH:</p> <p>87,321.09</p>
<p>List two equivalent numbers for:</p> <p>55%</p>	<p>Simplify the expression:</p> $x + 6 + 4x + 3$	<p>Find the volume of the rectangular prism.</p> <div></div>
<p>What decimal describes the model below?</p> <div></div>	<p>Find the quotient.</p> $6 \div \frac{1}{2}$	<p>Find the sum.</p> $24.1 + 3.74$

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# Week 6



<p>Convert the following measurement. Show all work.</p> <p>48 inches = _____ feet</p>	<p>Evaluate the following. <math>(36 \div 6) + 14 - 9 \times 2</math></p>	<p>Evaluate the following. <math>6^3</math></p>
<p>Write a numerical expression for the following:</p> <p><i>The product of 3 and y</i></p>	<p>Order the numbers from <i>least</i> to <i>greatest</i>.</p> <p>12.03, 1.2, 12.3, 1.203, 12.301</p>	<p>Find the difference. <math>12\frac{4}{5} - 9\frac{1}{10}</math></p>
<p>Evaluate the following: <math>(-11) + (-13)</math></p>	<p>Find the sum. <math>18\frac{7}{8} + 16\frac{3}{4}</math></p>	<p>Solve. <math>x + 24 = 60</math></p>



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# Week 7



Simplify the expression:

$$8(9x + 4)$$

Find the product.

$$188 \times 730$$

Find the quotient.

$$\frac{1}{4} \div 2$$

Round to the nearest HUNDREDTH.

11,922.3006

Evaluate the following:

$$-13 - 15$$

Find the mean.

36 53 41 39 52 59 49

Find the Greatest Common Factor

between the numbers:

45 and 48

Find the sum..

$$4\frac{2}{3} + 2\frac{3}{4}$$

Find the product.

$$\frac{1}{5} \times \frac{2}{3}$$

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# Week 8



A recipe for lemonade calls for 2 tablespoons of powder for every 3 cups of water. Write a ratio equivalent to that of the lemonade mix.

Circle the prime numbers, and box the composite numbers.

14   5   9   22   1   3   18

33   7   2   16   29   13

Convert the following measurement.  
Show all work.

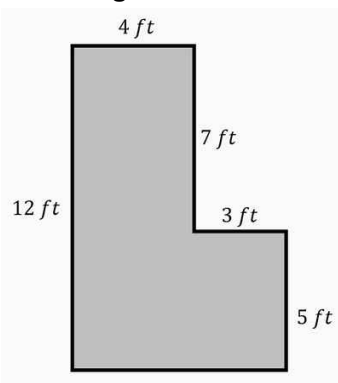
6 pints = \_\_\_\_\_ cups

Find the sum.  
 $622.86 + 53.49$

Find the product.  
 $\frac{1}{6} \times \frac{3}{4}$

Find the Least Common Multiple  
between the two numbers:  
**6 and 18**

Determine the missing side of the figure below.



Write a fraction that represents 65%.

Round to the nearest WHOLE NUMBER.

823.049

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# Week 9



Simplify the expression:

$$6(2x - 4)$$

List all of the *factors* of:

48

Find the product.

$$2.91 \times 0.5$$

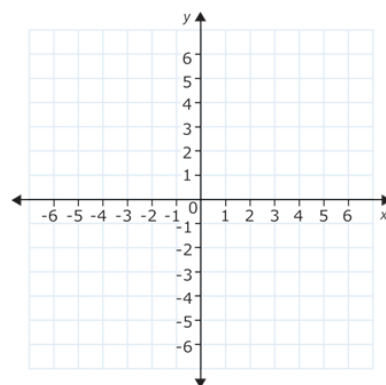
Find the Least Common Multiple  
between the two numbers:

3 and 12

List all the *multiples* of 9.

Graph the following points on the  
coordinate plane.

$(-2, 3)$ ,  $(4, -5)$ ,  $(0, 6)$



Find the range.

455 122 204 444 210 85

Find the product.

$$8.9 \times 2.5$$

A candy store charges \$3.20 per  
pound for chocolate peanuts. If Suzie  
wants to purchase 2.3 pounds, then  
how much will it cost?

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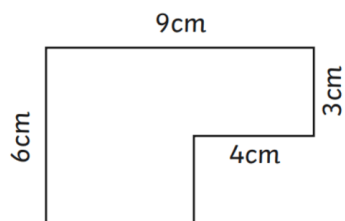
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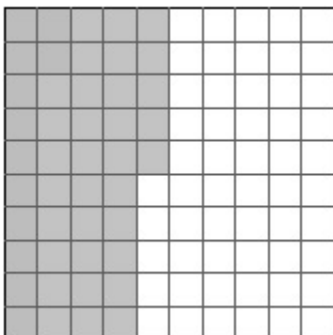
# Week 10



Find the area of the shape below.  
Break the larger shape into smaller  
shapes, if needed.



What decimal describes the model  
below?



Convert the following measurement.  
Show all work.

8 cups = \_\_\_\_\_ ounces

Evaluate the following.  
 $2^5$

Find the Least Common Multiple  
between the two numbers:  
*5 and 25*

Find the mean.  
90 93 88 86 91 77 82

Convert the following measurement.

32 ounces = \_\_\_\_\_ pounds

Evaluate the following:  
 $-75 \div -15$

Find the quotient.  
 $106.5 \div 15$

Name \_\_\_\_\_